STAT

June 12, 1969

U. S. Government

Attention: Ed D.

Subject: Control No. 02228 - Status Report
for Period Ending May 31, 1969

Gentlemen:

During this report period the following tasks have been performed.

1. Machining operations continued on the X and Y coordinate precision lead screw and nut assemblies. Work completed included the following:
   a. Finish threads were cut on the final of four precision lead screw blanks.
   b. Two precision nut castings were finish threaded internally.
   c. The lapping nuts for the precision lead screws have been finish threaded.

2. The precision lead screw and nut assemblies for the right-hand X and Y coordinate stage motions have been completed and are presently ready for installation on the twin stage comparator.

3. The shelf that will be attached to the electrical component rack as a writing surface has been received.

4. The lamp elements for the general field illuminators have been received from the manufacturer.

5. With the exception of the modifications required by the [redacted] Stereo Comparator Head it is estimated that 95% of the design and detail drawings for the twin stage comparator are presently completed. Approximately 80% of the individual components specified by these drawings have been manufactured. Surface finishes on all completed items have either been applied or are presently in process.

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Completed drawings include those for the design and manufacture of the illumination system for the stereo viewing system.

6. The instrument console for the twin stage comparator was received from the vendor. Mounting holes for the castors and leveling-type vibration isolators have been drilled and all surfaces sanded in preparation for painting.

7. The base casting for the twin stage comparator was prepared and painted with primer. The supporting and guiding ways for the X coordinate stage motions are an integral part of the base casting. These ways have undergone initial scraping and lapping operation. (Final lapping will not be done until the X and Y coordinate stage assemblies have been completed and can be positioned on the base.) The surface on the base casting to which the overarm will finally be secured has been finish scraped.

8. Both sets of X and Y coordinate stages have been chemically coated with manganese phosphate to afford protection against rusting. These stages are now ready for initial scraping, lapping, and assembly operations.

9. The gear teeth have been cut on the outside diameter of one of the rotary tables. Teeth on the second rotary table are scheduled to be cut during the next report period. These teeth are utilized to obtain the fine setting capability necessary to accurately align the cut film stages.

STAT 10. [redacted] was verbally informed by [redacted] STAT during this report period that the High Power Stereo Comparator Head would not be delivered prior to mid June, 1969. [redacted] did, STAT
STAT however, assure [redacted] during this conversation that delivery would not be later than June 30, 1969. Further checks will be made during June in an attempt to establish a definite delivery date for the High Power Stereo Comparator Head.

The Technical Representative notified the [redacted] STAT that his visit originally scheduled for this report period would be deferred to July 1 and 2, 1969. The purpose of this visit will be to review the progress on the twin stage comparator contract.

It is estimated that approximately 45% of the work on the twin stage comparator has been completed as of this report period.

During the June report period the [redacted] plans STAT to do the following work.

1. Complete the precision lead screw and nut assemblies to be used for left-hand X and Y coordinate stage motions.

2. Continue manufacturing components from detailed drawings previously submitted to production department.

3. Start painting the instrument console for the twin stage comparator.

4. Scrape the overarm casting to fit its mounting pad on the instrument base casting.

5. Fit support bearings and guide shoes to both sets of X and Y coordinate stages.

6. Start initial scraping and lapping operations on the X and Y coordinate stages.

7. Apply a manganese phosphate coating to both rotary tables after the gear teeth have been cut on their outside diameter.

8. Start assembly of the motor drive units and shaft encoders employed to drive and monitor the positions of the X and Y coordinate stages respectively.

STAT 9. [redacted] will be contacted at regular intervals during the month of June for the purposes of establishing a firm delivery date for the High Power Stereo Comparator Head. As soon as this date is known, STAT the [redacted] will set into motion the schedule for acceptance and modification of the Stereo Comparator Head.

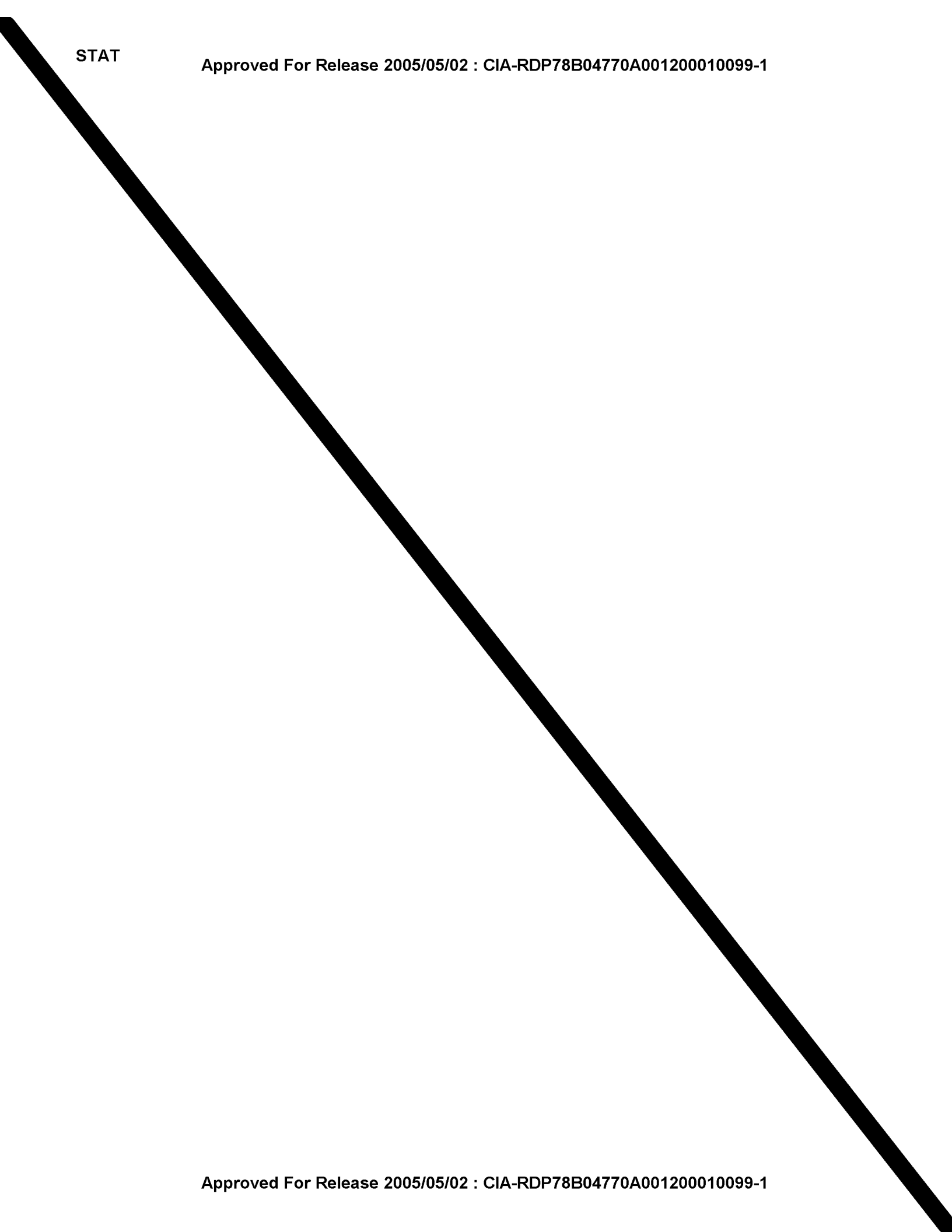
A Status of Funds statement will be found on the following page.

Very truly yours,

[redacted] STAT

Asst. Manager, Engineering

HBB:pc



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